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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO | | |
|---------------------------|-----------------|----------------------|------------------------|-------------------------|--|--|
| 10/039,485 | 11/09/2001 | Don Slaunwhite | GSH 08-892799 | 1157 | | |
| 27667 | 7590 08/25/2004 | | EXAMINER | | | |
| HAYES, SOLOWAY P.C. | | | BAYERL, RAYMOND J | | | |
| 130 W. CUSH TUCSON, AZ | IING STREET | | ART UNIT | PAPER NUMBER | | |
| TUCSON, AZ | 2 83701 | | 2173 | | | |
| | | | DATE MAILED: 08/25/200 | DATE MAILED: 08/25/2004 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.



| | | | | | 0/1 | | | | |
|--|--|---|---|--|--------------------|--|--|--|--|
| | | Application | Application No. Applicant(s) | | | | | | |
| | | 10/039,48 | 35 | SLAUNWHITE ET AL. | | | | | |
| | Office Action Summary | Examiner | | Art Unit | | | | | |
| | | Raymond | J. Bayerl | 2173 | | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | | | | |
| A SHO THE N - Exten after S - If the - If NO - Failur - Any re | DRTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNIC sions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this community period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for | ATION. 37 CFR 1.136(a). In no evenication. days, a reply within the statutory period will apply and will, by statute, cause the app | ent, however, may a reply butory minimum of thirty (30) Il expire SIX (6) MONTHS fi lication to become ABANDO | e timely filed days will be considered timely rom the mailing date of this co | /. mmunication. | | | | |
| 1) | Responsive to communication(s) filed | d on | | | | | | | |
| 2a) | This action is FINAL . 2b | o)⊠ This action is | non-final. | | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims | | | | | | | | | |
| 4)🖂 | Claim(s) $1 - 22$ is/are pending in the a | application. | | | | | | | |
| 4 | 4a) Of the above claim(s) is/are | withdrawn from co | nsideration. | | | | | | |
| 5) | Claim(s) is/are allowed. | | | | | | | | |
| 6)🖂 | Claim(s) <u>1 - 22</u> is/are rejected. | | | | | | | | |
| 7) | 7) | | | | | | | | |
| 8) Claim(s) are subject to restriction and/or election requirement. | | | | | | | | | |
| Application | on Papers | | | | | | | | |
| 9) The specification is objected to by the Examiner. | | | | | | | | | |
| 10)⊠ 7 | The drawing(s) filed on <u>09 November 2</u> | <u>2001</u> is/are: a)⊠ acc | cepted or b) object | ed to by the Examiner | r. | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | | | |
| 11) 🔲 🏻 | The proposed drawing correction filed | | • | proved by the Examine | er. | | | | |
| If approved, corrected drawings are required in reply to this Office action. | | | | | | | | | |
| 12) The oath or declaration is objected to by the Examiner. | | | | | | | | | |
| Priority u | nder 35 U.S.C. §§ 119 and 120 | | | | | | | | |
| 13) | Acknowledgment is made of a claim for | or foreign priority ur | nder 35 U.S.C. § 11 | 9(a)-(d) or (f). | | | | | |
| a)[| ☐ All b)☐ Some * c)☐ None of: | | | | | | | | |
| • | 1. Certified copies of the priority de | ocuments have bee | n received. | | | | | | |
| | 2. Certified copies of the priority de | ocuments have bee | n received in Applic | cation No | | | | | |
| Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | | | |
| 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). | | | | | | | | | |
| a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. | | | | | | | | | |
| Attachment | | | | | | | | | |
| 2) Notice | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTonation Disclosure Statement(s) (PTO-1449) Pap | | | nary (PTO-413) Paper No(nal Patent Application (PTo | | | | | |
| S. Patent and Tr | | Office Action Summa | | Part of Paner No. 2 | | | | | |

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1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

aca RB

2. Claims 19 - 22 rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

These claims to a data processing-related invention do not meet any of the four statutory classes of invention: process, machine, manufacture or composition of matter.

Specifically, claims 19 – 20 recite "[e]lectronic signals for use in the execution of a computer of a method for...". However, the "signals" are not claimed as being associated, within the body of the claim, with any "real world" process steps or machine components, and the claims are therefore directed, simply, to the information content of those "signals", which do not qualify under the 4 statutory classes.

Claims 21 – 22 recite a "computer program product for use in the execution in a computer of a method for...", with nothing more than a series of "module" components. In this instance, there is nothing within the body of the claim that incorporates anything beyond function-oriented information. Thus, these claims are merely directed to a computer program *per se*, and this also does not conform to PTO guidelines in interpretation of 35 USC 101 statutory subject matter.

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3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claims 1 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tervo ("Tervo"; US #2002/0036620 A1) in view of Samsung Electronics Co. Ltd. ("Samsung"; EP #1 107 544 A2).

As per independent claim 1's "shortcut key manager for managing shortcut key assignment", Tervo's <u>ACCESSING SCREEN FIELDS</u>, <u>FUNCTIONS AND PROGRAMS</u> is also shown as <u>USING A SIMPLE SINGLE KEY STROKE</u>. As an example, <u>a user by selecting a single keystroke may automatically place the cursor in a desired field on an active screen or execute another function or screen (Abstract). In developing <u>Keystroke Database</u> 20 (figs 1, 2; paragraphs 0022 – 0024), Tervo teaches that "a non-command user interface item type" is identified: <u>depending upon which screen is active at the</u></u>

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particular moment, the specific keystrokes access categories in several instances of functions or fields that use the character entered after the ALT key. In fig 2, ALT C, for example, the various "C" items Company Name, Client Add, CampaignManager, or Client are variously mapped. Thus, when "a shortcut key handler" is used in Tervo, "an instance of the non-command user interface item" belonging to an identified "type" will result in "presenting an instance" of that "user interface item". By so doing, a Tervo user can quickly and simply position the cursor on a screen, change screens, and execute functions (paragraph 0021).

Tervo, while identically disclosing keystroke mapping to groups of related functions for different interface screens, does not explicitly teach the initial "assignment" tools that are a part of claim 1: the "item receiver", "key receiver" and "assignment handler", though such are indirectly suggested in the existence of a Tervo keystroke assignment as is used.

However, Samsung's <u>Method of defining soft-keys for user selection of desired</u> <u>functions</u> provides for <u>defining the hot keys used to immediately initiate desired</u> <u>functions by the user</u> (Abstract). Specifically, Samsung teaches <u>displaying a plurality of main menu items</u>, <u>sub-menu items</u>, and <u>displaying the keys used for the hot keys, and selecting one of the key as a hot key assigned to the at least one sub-menu</u> (see also paragraphs 0005, 0012 – 0016).

Thus, it would have been obvious to a person having ordinary skill in the art at the time of applicant's invention to provide a Samsung-style selection interface to associate Tervo's categorized keystrokes with their contextual screen operations, the

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motivation being to allow better user customization of the interface and a straightforward set-up procedure for the Tervo Keystroke Database.

As per claim 2's "setting a user control focus to the non-command user interface item" (see also claim 11), it has already been noted that Tervo can <u>position the cursor on a screen</u>, and thus direct focus. Since <u>fields</u> may be accessed in Tervo, Tervo "sets a keyboard focus" (claims 3, 12) as well.

Tervo, in calling forth the assorted screen "instance" items, is capable of "controlling display of a window with an instance of the non-command user interface item" (claims 4, 13), in that additional dialogues may be opened, using the "shortcut key" mnemonics. Then, when the <u>cursor</u> appears at a <u>position</u>, Tervo teaches "displaying the window at a current cursor location" (claims 5, 14), and when this "window" is finished with its task, "a window closing unit" will be employed, as in claims 6, 15 (see Tervo, figs 5, 6).

As in the example of <u>ALT C</u>, Tervo further shows that "the shortcut key comprises one or more key strokes" (claims 7, 16), and prior to invocation of the interactive focus placement, Tervo's "non-command item is not visual when it is not selected" (claim 8).

Independent claim 9 is similar to independent claim 1 and is rejected using Tervo in view of Samsung using a similar line of reasoning. The claim is broader in that the presentation of an "instance" is not part of the recitation (as appears in dependent claim 10), but the overall "managing" of "shortcut key assignment" between an "item" and "a

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key" is suggested by the combination of Tervo's <u>keystrokes</u>, when set by a Samsungstyle originating interface.

Independent claims 17, 19, 21 are rejected using a line of reasoning similar to that applied above in the rejection of claim 9. Claims 18, 20, 22 are rejected for reasons similar to those presented for the rejection of claim 10.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The remaining prior art references indicated on the attached form PTO-892 relate to the assignment of functionality to keys on a keyboard.

- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond J. Bayerl whose telephone number is (703) 305-9789. The examiner can normally be reached on M F from 10:00 AM to 5:00 PM.
- 8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca, can be reached on (703) 308-3116. All patent application related correspondence transmitted by FAX **must be directed** to the central FAX number (703) 872-9306.
- 9. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

